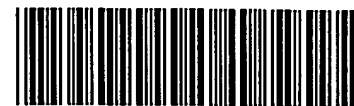


RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/553,674
Source: 1FWO
Date Processed by STIC: 8/12/06

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DATE: 08/17/2006

PATENT APPLICATION: US/10/553,674

TIME: 10:39:26

Input Set : A:\15700002.APP

Output Set: N:\CRF4\08172006\J553674.raw

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3 <110> APPLICANT: CHUA, KAW
4     SEOW, SEE VOON
5     KOLATKAR, PRASANNA
7 <120> TITLE OF INVENTION: MOLECULE
9 <130> FILE REFERENCE: 15700.0002
11 <140> CURRENT APPLICATION NUMBER: 10/553,674
12 <141> CURRENT FILING DATE: 2005-10-17
14 <150> PRIOR APPLICATION NUMBER: PCT/SG04/00098
15 <151> PRIOR FILING DATE: 2004-04-16
17 <150> PRIOR APPLICATION NUMBER: GB 0308988.5
18 <151> PRIOR FILING DATE: 2003-04-17
20 <160> NUMBER OF SEQ ID NOS: 488
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
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27 <213> ORGANISM: Artificial Sequence
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31     oligonucleotide
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34 <221> NAME/KEY: modified_base
35 <222> LOCATION: (1)..(13)
36 <223> OTHER INFORMATION: a, c, g, t, unknown or other
38 <400> SEQUENCE: 1
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43 <211> LENGTH: 9
44 <212> TYPE: PRT
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47 <220> FEATURE:
48 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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51 <220> FEATURE:
52 <221> NAME/KEY: MOD_RES
53 <222> LOCATION: (1)..(9)
54 <223> OTHER INFORMATION: Variable amino acid
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58 1           5
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62 <211> LENGTH: 32
63 <212> TYPE: DNA

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64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
68     primer
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74 <210> SEQ ID NO: 4
75 <211> LENGTH: 33
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
81     primer
83 <400> SEQUENCE: 4
84 ttactgaatt cttatggttt ctgagaacag atg                               33
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88 <211> LENGTH: 348
89 <212> TYPE: DNA
90 <213> ORGANISM: Flammulina velutipes
92 <400> SEQUENCE: 5
93 atgtccgcca cgctcgtcac cttccagctt gcctacttgg tgaagaagat cgacttcgac       60
95 tacacccccca actggggccg tggtaaccca agcagctaca tcgacaacct taccttcccc       120
97 aaggttctca ccgacaaaaa atactcgtac cgcgtcgtgg tcaatggctc tgaccttggc       180
99 gtcgagtcca acttcgcagt gacaccgtcc ggtgggcaga ccatcaactt cctccagtac       240
101 aacaaggggt atggtgtcgc ggacaccaa acgattcaag ttttcgttgt cattccagat       300
103 accggcaact cggaggagta catcatcgct gagtgggaaga agacttga                 348
106 <210> SEQ ID NO: 6
107 <211> LENGTH: 115
108 <212> TYPE: PRT
109 <213> ORGANISM: Flammulina velutipes
111 <400> SEQUENCE: 6
112 Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
113 1          5          10          15
116 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
117          20          25          30
120 Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
121          35          40          45
124 Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
125          50          55          60
128 Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
129 65          70          75          80
132 Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
133          85          90          95
136 Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp
137          100         105         110
140 Lys Lys Thr
141          115
144 <210> SEQ ID NO: 7
145 <211> LENGTH: 1038

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146 <212> TYPE: DNA

147 <213> ORGANISM: Flammulina velutipes

149 <400> SEQUENCE: 7

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152 ttggaatatc ttgaagaaaa atatgaagag catttgatatg agcgcgatga aggtgataaa      120
154 tggcgaaaca aaaagtttga attgggtttg gagtttccca atcttcctta ttatattgat      180
156 ggtgatgtta aattaacaca gtctatggcc atcatacggtt atatagctga caagcacaac      240
158 atgttggttg gttgtccaaa agagcgtgca gagatttcaa tgcttgaagg agcgggtttg      300
160 gatattagat acggtgtttc gagaattgca tatagtaaag actttgaaac tctcaaagtt      360
162 gattttctta gcaagctacc tgaaatgctg aaaatgttcg aagatcggtt atgtcataaa      420
164 acatatttta atggtgatca tgtaacccat cctgacttca tgttgatatga cgctcttgat      480
166 gttgttttat acatggaccc aatgtgcctg gatgcgttcc caaaattagt ttgttttaaa      540
168 aaacgtattg aagctatccc acaaattgat aagtacttga aatccagcaa gtatatagca      600
170 tggcctttgc agggctggca agccacgttt ggtggtggcg accatcctcc aaaatcggat      660
172 ctggaagtgc tgttccaggg gcccttgga tcctccgcc cgctcgctcac cttccagctt      720
174 gcctacttgg tgaagaagat cgacttcgac tacaccccca actggggccg tggtagccca      780
176 agcagctaca tcgacaacct taccttcccc aaggttctca ccgacaaaaa atactcgta      840
178 cgcgtcgtgg tcaatggctc tgaccttggc gtcgagtcca acttcgcagt gacaccgtcc      900
180 ggtgggcaga ccatcaactt cctccagtag aacaaggggt atggtgtcgc ggacaccaa      960
182 acgattcaag ttttcgttgt cattccagat accggcaact cggaggagta catcatcgct      1020
184 gagtggaga agacttga                                     1038

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187 <210> SEQ ID NO: 8

188 <211> LENGTH: 345

189 <212> TYPE: PRT

190 <213> ORGANISM: Flammulina velutipes

192 <400> SEQUENCE: 8

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193 Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
194 1 5 10 15
197 Thr Arg Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
198 20 25 30
201 Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
202 35 40 45
205 Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
206 50 55 60
209 Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
210 65 70 75 80
213 Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
214 85 90 95
217 Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
218 100 105 110
221 Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
222 115 120 125
225 Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
226 130 135 140
229 Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
230 145 150 155 160
233 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
234 165 170 175
237 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr

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Output Set: N:\CRF4\08172006\J553674.raw

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238          180          185          190
241 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
242          195          200          205
245 Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Glu Val Leu
246          210          215          220
249 Phe Gln Gly Pro Leu Gly Ser Ser Ala Thr Ser Leu Thr Phe Gln Leu
250 225          230          235          240
253 Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
254          245          250          255
257 Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
258          260          265          270
261 Leu Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp
262          275          280          285
265 Leu Gly Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr
266          290          295          300
269 Ile Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys
270 305          310          315          320
273 Thr Ile Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu
274          325          330          335
277 Tyr Ile Ile Ala Glu Trp Lys Lys Thr
278          340          345
281 <210> SEQ ID NO: 9
282 <211> LENGTH: 309
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
288     nucleotide sequence
290 <400> SEQUENCE: 9
291 atgtccgccca cgtcgttcga ctacaccccc aactgggggcc gtggtacccc aagcagctac      60
293 atcgacaacc ttaccttccc caaggttctc accgacaaaa aatactcgta ccgcgtcgtg      120
295 gtcaatggct ctgaccttgg cgtcgagtc aacttcgcag tgacaccgtc cgggtgggcag      180
297 accatcaact tcctccagta caacaagggg tatggtgtcg cggacaccaa aacgattcaa      240
299 gttttcgttg tcattccaga taccggcaac tcggaggagt acatcatcgc tgagtggaag      300
301 aagacttga                                     309
304 <210> SEQ ID NO: 10
305 <211> LENGTH: 102
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
311     protein sequence
313 <400> SEQUENCE: 10
314 Met Ser Ala Thr Ser Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
315 1          5          10          15
318 Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp
319          20          25          30
322 Lys Lys Tyr Ser Tyr Arg Val Val Asn Gly Ser Asp Leu Gly Val
323          35          40          45

```

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Input Set : A:\15700002.APP

Output Set: N:\CRF4\08172006\J553674.raw

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326 Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe
327      50                      55                      60
330 Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln
331 65                      70                      75                      80
334 Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile
335                      85                      90                      95
338 Ala Glu Trp Lys Lys Thr
339      100
342 <210> SEQ ID NO: 11
343 <211> LENGTH: 303
344 <212> TYPE: DNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
349      nucleotide sequence
351 <400> SEQUENCE: 11
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354 aaccttacct tccccaaggt tctcaccgac aaaaaatact cgtaccgcgt cgtgggtcaat      120
356 ggctctgacc ttggcgctcga gtccaaacttc gcagtgcacac cgtccgggtgg gcagacacatc      180
358 aacttcctcc agtacaacaa ggggtatggg gtcgcggaca ccaaaacgat tcaagttttc      240
360 gttgtcattc cagataccgg caactcggag gagtacatca tcgctgagtg gaagaagact      300
362 tga      303
365 <210> SEQ ID NO: 12
366 <211> LENGTH: 100
367 <212> TYPE: PRT
368 <213> ORGANISM: Artificial Sequence
370 <220> FEATURE:
371 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
372      protein sequence
374 <400> SEQUENCE: 12
375 Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
376 1      5      10      15
379 Ile Asp Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys
380      20      25      30
383 Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser
384      35      40      45
387 Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln
388      50      55      60
391 Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe
392 65      70      75      80
395 Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu
396      85      90      95
399 Trp Lys Lys Thr
400      100
403 <210> SEQ ID NO: 13
404 <211> LENGTH: 309
405 <212> TYPE: DNA
406 <213> ORGANISM: Artificial Sequence
408 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/553,674

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Input Set : A:\15700002.APP
Output Set: N:\CRF4\08172006\J553674.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13

Seq#:2; Xaa Pos. 1,2,3,4,5,6,7,8,9

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/553,674

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Input Set : A:\15700002.APP

Output Set: N:\CRF4\08172006\J553674.raw

L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0